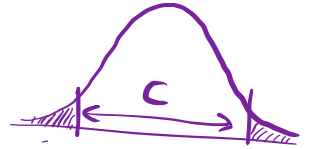


Week 10

$$P(k; p, n) = p^k (1-p)^{n-k} \frac{n!}{k! (n-k)!}$$

$$\langle k \rangle = np$$

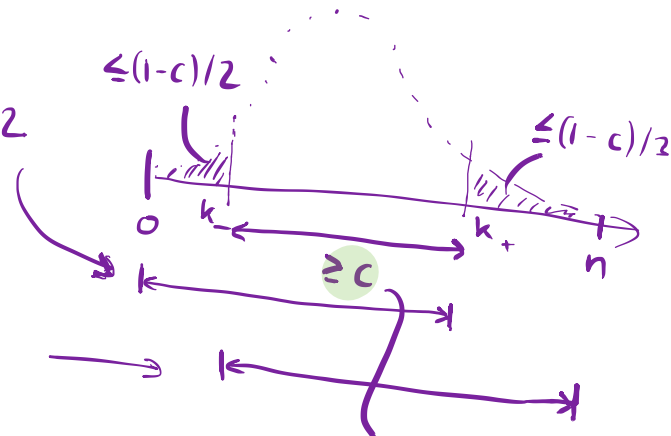
$$\int_{-\infty}^{x_-} P(x) dx = \int_{x_+}^{\infty} P(x) dx = (1-c)/2$$



$$\sum_{k=0}^{k_-} P(k; p, n) \stackrel{?}{=} \sum_{k=k_+}^n P(k; p, n) \stackrel{?}{=} (1-c)/2$$

$$\sum_{k=0}^{k_+} P(k; p, n) \geq 1 - (1-c)/2$$

$$\sum_{k=k_-}^n P(k; p, n) \geq 1 - (1-c)/2$$



eg. $\geq 90\%$
confidence
level